

Jan DELAVAL

Please!

Thanks!

Access DB# 85290

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Josephine YOUNG Examiner #: 79813 Date: 1/27/03

Art Unit: 1623 Phone Number 305-605-1201 Serial Number: 091914 596

Mail Box and Bldg/Room Location: 8D04 Results Format Preferred (circle): PAPER DISK (E-MAIL)

8B19

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: 2'- Substituted RNA preparation

Inventors (please provide full names): REESE, Colin Bernard; et al
SONG, Quan Lai

Earliest Priority Filing Date: 3/19/1999

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Attached: 1) Bib Sheet; 2) Assignment Info; 3) Pending Claim Set

Please search claim 1

(point of novelty: use of Al(OR)₃ as nucleophile to deliver OOR)

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JAN 28 2003
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Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 E07 - 703-308-4498
jan.delaval@uspto.gov

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher:	<u>Jan</u>	NA Sequence (#)	STN
Searcher Phone #:	<u>7498</u>	AA Sequence (#)	Dialog
Searcher Location:		Structure (#)	Questel/Orbit
Date Searcher Picked Up:	<u>2/4/03</u>	Bibliographic	Dr.Link
Date Completed:	<u>2/4/03</u>	Litigation	Lexis/Nexis
Searcher Prep & Review Time:		Fulltext	Sequence Systems
Clerical Prep Time:	<u>20</u>	Patent Family	WWW/Internet
Online Time:	<u>+7X</u>	Other	Other (specify)

=> fil reg
FILE 'REGISTRY' ENTERED AT 12:33:15 ON 04 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7
DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

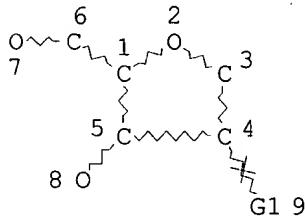
TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

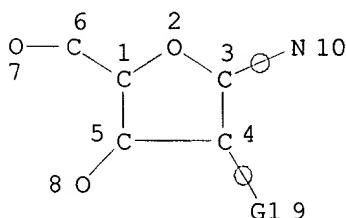
=> d sta que 129
L23 STR



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CONNECT IS M3 RC AT 3
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L25 119863 SEA FILE=REGISTRY SSS FUL L23
L27 STR



VAR G1=O/S/N
NODE ATTRIBUTES:
CONNECT IS M3 RC AT 3
DEFAULT MLEVEL IS ATOM

Jan Delaval
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Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
ian.delaval@uspto.gov

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

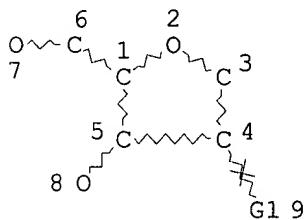
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SEARCH TIME: 00.00.01

2053 ANSWERS

=> d sta que 146
L23 STR



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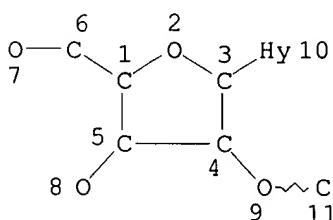
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L30 STR



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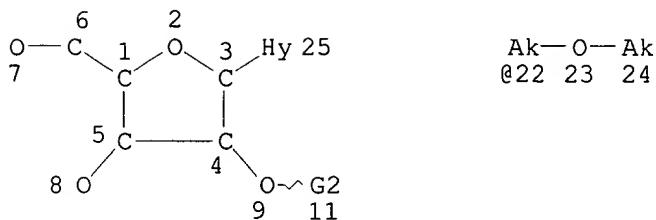
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STEREO ATTRIBUTES: NONE

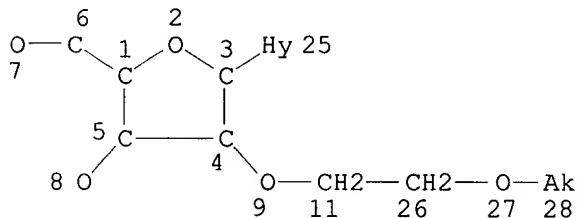
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L41 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1 N  AT   25
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STEREO ATTRIBUTES: NONE
L42 16852 SEA FILE=REGISTRY SUB=L32 SSS FUL L41
L43 STR



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NODE ATTRIBUTES:  
CONNECT IS M1 RC AT 7  
CONNECT IS M1 RC AT 8  
CONNECT IS M1 RC AT 25  
CONNECT IS E1 RC AT 28  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS M1 N AT 25
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NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L44 171 SEA FILE=REGISTRY SUB=L42 SSS FUL L43
L45 2 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND C12H19N3O6
L46 169 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L45

=> d his

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SET COST OFF

FILE 'HCAPLUS' ENTERED AT 10:47:43 ON 04 FEB 2003
E WO2000-GB965/AP, PRN

L1 1 S E3,E4
L2 E GB99-6328/AP, PRN
L3 1 S E4
L3 1 S L1,L2
E REESE C/AU
L4 107 S E3,E4
E REESE COLIN/AU
L5 225 S E3-E5
E SONG Q/AU
L6 145 S E3-E14
E SONG QUAN/AU
L7 43 S E3,E16,E17
E AVECIA/PA,CS
L8 168 S E3-E44
SEL RN L3

FILE 'REGISTRY' ENTERED AT 10:50:08 ON 04 FEB 2003
L9 6 S E1-E6

FILE 'HCAPLUS' ENTERED AT 10:51:01 ON 04 FEB 2003
L10 663 S L4-L8
L11 1 S L10 AND L3
L12 662 S L10 NOT L11

FILE 'REGISTRY' ENTERED AT 10:51:17 ON 04 FEB 2003

FILE 'HCAPLUS' ENTERED AT 10:51:20 ON 04 FEB 2003
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L13 SEL L12 1- RN : 5130 TERMS
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 10:51:41 ON 04 FEB 2003
L14 5782 S L13
L15 71 S L14 AND AL/ELS
L16 71 S L14 AND ?ALUMIN?/CNS
L17 71 S L15,L16
L18 2 S L17 AND (AL OR AL203)/MF
L19 STR
L20 50 S L19
L21 STR L19
L22 50 S L21
L23 STR L21
L24 50 S L23
L25 119863 S L23 FUL
L26 STR L23
L27 STR L26
L28 50 S L27 SAM SUB=L25
L29 2053 S L27 FUL SUB=L25
SAV L29 YOUNG914/A.
L30 STR L19
L31 50 S L30 SAM SUB=L25
L32 16852 S L30 FUL SUB=L25
SAV TEMP L32 YOUNG914A/A
L33 STR L30
L34 50 S L33 SAM SUB=L32
L35 31 S L33 CSS SAM SUB=L32
L36 3283 S L33 FUL SUB=L32
SAV L36 YOUNG914B/A TEMP
E AL/ELS
L37 67894 S E3 AND O/ELS

FILE 'HCAPLUS' ENTERED AT 11:59:29 ON 04 FEB 2003
L38 1532 S L29

FILE 'REGISTRY' ENTERED AT 12:02:53 ON 04 FEB 2003

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L39      STR L33
L40      50 S L39 SAM SUB=L32
L41      STR L39
L42      16852 S L41 FUL SUB=L32
L43      STR L41
L44      171 S L43 FUL SUB=L42
          SAV L44 YOUNG914C/A
L45      2 S L44 AND C12H19N3O6
L46      169 S L44 NOT L45
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FILE 'HCAPLUS' ENTERED AT 12:07:00 ON 04 FEB 2003

```
L47      4 S L45
L48      226 S L46
L49      4 S L38 AND L47
L50      192 S L38 AND L48
L51      2 S L49,L50 AND (L18 OR AL OR ALUMIN? OR AL2O3)
L52      4 S L49,L51
L53      23 S L38 AND (L18 OR AL OR ALUMIN? OR AL2O3 OR "AL OR 3")
L54      21 S L38 AND (L18 OR AL OR ALUMIN? OR AL(1W)3)
L55      2 S L53 NOT L54
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FILE 'REGISTRY' ENTERED AT 12:11:09 ON 04 FEB 2003

```
L56      26592 S L37 AND C/ELS
L57      86 S L56 AND 3/ELC.SUB
L58      5104 S L56 AND 4/ELC.SUB
L59      275 S L58 NOT H/ELS
L60      4829 S L58 NOT L59
L61      4915 S L57,L60
L62      498 S L37 AND UNSPECIFIED
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FILE 'HCAPLUS' ENTERED AT 12:16:19 ON 04 FEB 2003

```
L63      227 S L44,L46
L64      16503 S L61
L65      0 S L63 AND L64
L66      2 S L63 AND (L18 OR AL OR ALUMIN? OR AL(1W)3 OR AL O# 3)
L67      4 S L52,L66
L68      470 S L42 AND L38
L69      0 S L68 AND L64
L70      5 S L68 AND (L18 OR AL OR ALUMIN? OR AL(1W)3 OR AL O# 3)
L71      3 S L70 NOT (FOX OR TAYLOR)/AB
L72      5 S L67,L71
L73      5 S L11,L72
L74      2 S L4-L8 AND L73
L75      5 S L73,L74
L76      3 S L68 AND L4-L8
L77      6 S L75,L76
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FILE 'REGISTRY' ENTERED AT 12:21:40 ON 04 FEB 2003

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L78      STR L33
L79      25907 S L78 FUL SUB=L25
L80      25905 S L79 NOT L45
L81      91 S L46 AND L80
L82      15 S L81 AND 2/NR
L83      9 S L82 NOT P/ELS
L84      5 S L83 AND URID?
L85      2 S L84 AND (C12H18N2O7 OR C13H20N2O7)
L86      1 S URIDINE/CN
```

FILE 'HCAPLUS' ENTERED AT 12:26:09 ON 04 FEB 2003

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L87      5931 S L84 OR L86
L88      308 S L87 AND L38
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L89 3 S L88 AND L77
 L90 2 S L88 AND (L64 OR AL OR ALUMIN? OR AL(1W)3 OR AL O# 3)
 L91 6 S L77, L89, L90 AND L1-L8, L10-L12, L38, L47-L55, L63-L77, L87-L90
 L92 21 S L38 AND (AL OR ALUMIN?)
 L93 5 S L92 AND L68
 L94 8 S L91, L93
 L95 2 S L94 NOT L91
 L96 6 S L91 AND L94
 SEL HIT RN

FILE 'REGISTRY' ENTERED AT 12:29:06 ON 04 FEB 2003
 L97 33 S E1-E33
 L98 0 S L97 AND AL/ELS
 L99 15 S L97 AND L29

FILE 'HCAPLUS' ENTERED AT 12:30:30 ON 04 FEB 2003
 L100 6 S L52 OR L96
 L101 6 S L100 OR L47
 SEL HIT RN

FILE 'REGISTRY' ENTERED AT 12:30:52 ON 04 FEB 2003
 L102 33 S E34-E66
 L103 2 S L102 AND L45
 L104 15 S L102 AND L29
 L105 3 S L102 AND L85, L86
 L106 13 S L102 NOT L103-L105

FILE 'REGISTRY' ENTERED AT 12:33:15 ON 04 FEB 2003

=> fil hcaplus
 FILE 'HCAPLUS' ENTERED AT 12:33:51 ON 04 FEB 2003
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FILE COVERS 1907 - 4 Feb 2003 VOL 138 ISS 6
 FILE LAST UPDATED: 3 Feb 2003 (20030203/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 1101 all hitstr tot

L101 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:696649 HCAPLUS
 DN 137:246565
 TI Antisense oligonucleotides for treating diseases associated with interleukin-5 signal transduction
 IN Dean, Nicholas M.; Karras, James G.; McKay, Robert; Manoharan, Muthiah
 PA USA
 SO U.S. Pat. Appl. Publ., 77 pp., Cont.-in-part of Appl. No. PCT/US00/07318.

CODEN: USXXCO

DT Patent

LA English

IC ICM A61K048-00

ICS C12Q001-68; C07H021-04

NCL 514044000

CC 15-5 (Immunochemistry)

Section cross-reference(s): 3, 63

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002128216	A1	20020912	US 2001-800629	20010307
	US 6136603	A	20001024	US 1999-280799	19990326
	WO 2000058512	A1	20001005	WO 2000-US7318	20000317
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 1999-280799	A2	19990326		
	WO 2000-US7318	A2	20000317		

AB Compns. and methods are provided for antisense modulation of interleukin-5 signal transduction. Antisense compds., particularly antisense oligonucleotides, targeted to nucleic acids encoding interleukin-5 and interleukin-5 receptor .alpha. are preferred. Methods of using these compds. for modulation of interleukin-5 signal transduction and for treatment of diseases, particularly eosinophilic syndrome, asthma and other reactive airway diseases, those that assocd. with interleukin-5 signal transduction are also provided.

ST antisense oligonucleotide interleukin 5 signal transduction asthma eosinophilic syndrome; airway disease IL5 receptor alpha antisense oligonucleotide phosphorothioate

IT Diagnosis
(agents; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Animal
Animal cell
Animal tissue
Apoptosis
Asthma
Human
Mammalia
Signal transduction, biological
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT RNA
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Antisense oligonucleotides
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Interleukin 5
Interleukin 5 receptors
Nucleic acids

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(carriers; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(colloids; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Peptides, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(conjugates, nucleic acid; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Test kits
(diagnostic; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Respiratory tract
(disease; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Eosinophil
(diseases, eosinophilic syndrome; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Protein sequences
(for interleukin-5 and IL-5 receptors of human and mouse)

IT DNA sequences
(for interleukin-5 of human and mouse)

IT cDNA sequences
(for interleukin-5 receptor alpha-subunits of human and mouse)

IT Peptides, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fusion peptides, nucleic acid conjugates; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(liqs., dispersions; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Carbohydrates, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(moiety; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Bond
(phosphothioates; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(pulmonary; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Interleukin 5 receptors

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sol. .alpha.-chain; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT 458622-84-9 458622-85-0, Interleukin 5 (human gene IL5 precursor)
 458622-86-1 458622-87-2 458622-88-3 458622-89-4
 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (amino acid sequence; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT 283617-11-8P, ISIS 16999 299995-14-5P, ISIS 16096 299995-15-6P, ISIS 16097 299995-16-7P, ISIS 16098 299995-17-8P, ISIS 16099 299995-18-9P, ISIS 16100 299995-19-0P, ISIS 16101 299995-20-3P, ISIS 16102 299995-21-4P, ISIS 16103 299995-22-5P, ISIS 21750 299995-28-1P, ISIS 21756 299995-32-7P, ISIS 21760 300425-30-3P, ISIS 21847 300425-31-4P, ISIS 21849 300425-32-5P, ISIS 21851 300425-33-6P, ISIS 21853 300425-34-7P, ISIS 21855 300425-35-8P, ISIS 16746 300425-36-9P, ISIS 16747 300425-37-0P, ISIS 16749 300425-38-1P, ISIS 16750 300425-39-2P, ISIS 16752 300425-40-5P, ISIS 16753 300425-41-6P, ISIS 16755 300425-42-7P, ISIS 16756 300425-43-8P, ISIS 16758 300425-44-9P, ISIS 16759 300611-25-0P, ISIS 16975 300611-26-1P, ISIS 16976 300611-27-2P, ISIS 16977 300611-28-3P, ISIS 16978 300611-29-4P, ISIS 16979 300611-30-7P, ISIS 16980 300611-31-8P, ISIS 16981 300611-32-9P, ISIS 16982 300611-33-0P, ISIS 16983 300611-34-1P, ISIS 16984 300611-35-2P, ISIS 16985 300611-36-3P, ISIS 16986 300611-37-4P, ISIS 16987 300611-38-5P, ISIS 16988 300611-39-6P, ISIS 16989 300611-40-9P, ISIS 16990 300611-41-0P, ISIS 16991 300611-42-1P, ISIS 16992 300611-43-2P, ISIS 16993 300611-44-3P, ISIS 16994 300611-45-4P, ISIS 16995 300611-46-5P, ISIS 16996 300611-47-6P, ISIS 16997 300611-48-7P, ISIS 16998 300611-49-8P, ISIS 16071 300611-50-1P, ISIS 16072 300611-51-2P, ISIS 16073 300611-52-3P, ISIS 16074 300611-53-4P, ISIS 16075 300611-54-5P, ISIS 16076 300611-55-6P, ISIS 16077 300611-56-7P, ISIS 16078 300611-57-8P, ISIS 16079 300611-58-9P, ISIS 16080 300611-59-0P, ISIS 16081 300611-60-3P, ISIS 16082 300611-61-4P, ISIS 16083 300611-62-5P, ISIS 16084 300611-63-6P, ISIS 16085 300611-64-7P, ISIS 16086 300611-65-8P, ISIS 16087 300611-66-9P, ISIS 16088 300611-67-0P, ISIS 16089 300611-68-1P, ISIS 16090 300611-69-2P, ISIS 16091 300611-70-5P, ISIS 16092 300611-71-6P, ISIS 16093 300611-72-7P, ISIS 16094 300611-73-8P, ISIS 16095 300611-74-9P, ISIS 16924 300611-75-0P, ISIS 16925 300611-76-1P, ISIS 16926 300611-77-2P, ISIS 16927 300611-78-3P, ISIS 16928 300611-79-4P, ISIS 16929 300611-80-7P, ISIS 16930 300611-81-8P, ISIS 16931 300611-82-9P, ISIS 16932 300611-83-0P, ISIS 16933 300611-84-1P, ISIS 16934 300611-85-2P, ISIS 16935 300611-86-3P, ISIS 16936 300611-87-4P, ISIS 16937 300611-88-5P, ISIS 16938 300611-89-6P, ISIS 16939 300611-90-9P, ISIS 16940 300611-91-0P, ISIS 16941 300611-92-1P, ISIS 16942 300611-93-2P, ISIS 16943 300611-94-3P, ISIS 16944 300611-95-4P, ISIS 16945 300611-96-5P, ISIS 16946 300611-97-6P, ISIS 16947 300611-98-7P, ISIS 16948 300611-99-8P, ISIS 16950 300612-00-4P, ISIS 16951 300612-01-5P, ISIS 18001 300612-02-6P, ISIS 18002 300612-03-7P, ISIS 18003 300612-04-8P, ISIS 18004 300612-05-9P, ISIS 18005 300612-06-0P, ISIS 18006 300612-07-1P, ISIS 18007 300612-08-2P, ISIS 18008 300612-09-3P, ISIS 21848 300612-10-6P, ISIS 21850 300612-11-7P, ISIS 21852 300612-12-8P, ISIS 21854 300612-13-9P, ISIS 16949 300612-14-0P, ISIS 16767 300612-15-1P, ISIS 16768 300612-16-2P, ISIS 16769 300612-17-3P, ISIS 16770 300612-18-4P, ISIS 16771 300612-19-5P, ISIS 16772 300612-20-8P, ISIS 16773 300612-21-9P, ISIS 16774 300612-22-0P, ISIS 16775 300612-23-1P, ISIS 16776 300612-24-2P, ISIS 16777 300612-25-3P, ISIS

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 300612-33-3P, ISIS 16786 300612-34-4P, ISIS 16787 300612-35-5P, ISIS
 16788 300612-36-6P, ISIS 16789 300612-37-7P, ISIS 16790
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 16965 459467-37-9P, ISIS 16966 459467-38-0P, ISIS 110790
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 21762 459467-42-6P, ISIS 21763 459467-43-7P, ISIS 21764
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 18014 459467-47-1P, ISIS 18015 459467-48-2P, ISIS 18016
 459881-36-8P, ISIS 18017

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antisense oligonucleotides for treating interleukin-5 signal-assocd.
 eosinophilic syndrome, asthma and other reactive airway diseases)

IT 93-97-0, Benzoic anhydride 108-24-7, Acetic anhydride 109-86-4,
 2-Methoxyethanol 288-88-0, 1H-1,2,4-Triazole 1463-10-1,
 5-Methyluridine 5536-17-4, 9-.beta.-D-Arabinofuranosyladenine
 66304-01-6, Beaucage reagent 102691-36-1 **195253-09-9**

RL: RCT (Reactant); RACT (Reactant or reagent)
 (antisense oligonucleotides for treating interleukin-5 signal-assocd.
 eosinophilic syndrome, asthma and other reactive airway diseases)

IT 554-01-8P, 5-Methylcytosine 784-71-4P, 2'-Deoxy-2'-fluorouridine
 838-07-3P, 5-Methyl-2'-deoxycytidine **3736-77-4P**,
 2,2'-Anhydro-1-.beta.-D-arabinofuranosyluracil 10212-20-1P,
 2'-Deoxy-2'-fluorocytidine 21679-12-9DP, 2-Fluorodeoxyadenosine,
 amidites **22423-26-3P** 78842-13-4P, 2'-Deoxy-2'-fluoroguanosine
 79896-97-2P, N6-Benzoyl-9-.beta.-D-arabinofuranosyladenine 136834-20-3P
163759-49-7P, 2'-O-Methoxyethyl-5-methyluridine
163759-50-0P **163759-94-2P** **182495-98-3P**
182496-00-0P **182496-01-1P** **223777-16-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(antisense oligonucleotides for treating interleukin-5 signal-assocd.
 eosinophilic syndrome, asthma and other reactive airway diseases)

IT 384422-60-0, GenBank D90205 384439-81-0, GenBank X12706 384449-46-1,
 GenBank X61176 384487-55-2, GenBank M96652 384608-76-8, GenBank U18373
 391535-37-8, GenBank M96651 392214-92-5, GenBank X06271 459235-20-2,
 DNA (Mus musculus gene Il-5 plus flanks) 459235-21-3 459235-22-4
 459235-23-5 459235-24-6

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP

(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (nucleotide sequence; antisense oligonucleotides for treating
 interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other
 reactive airway diseases)

IT	459235-43-9	459235-44-0	459235-45-1	459235-46-2	459235-47-3
	459235-48-4	459235-49-5	459235-50-8	459235-51-9	459235-52-0
	459235-53-1	459235-54-2	459235-55-3	459235-56-4	459235-57-5
	459235-58-6	459235-59-7	459235-60-0	459235-61-1	459235-62-2
	459235-63-3	459235-64-4	459235-65-5	459235-66-6	459235-67-7
	459235-68-8	459235-69-9	459235-70-2	459235-71-3	459235-72-4
	459235-73-5	459235-74-6	459235-75-7	459235-76-8	459235-77-9
	459235-78-0	459235-79-1	459235-80-4	459235-81-5	459235-82-6
	459235-83-7	459235-84-8	459235-85-9	459235-86-0	459235-87-1
	459235-88-2	459235-89-3	459235-90-6	459235-91-7	459235-92-8
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	459236-48-7	459236-49-8	459236-50-1	459236-51-2	459236-52-3
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	459237-18-4	459237-19-5	459237-20-8	459237-21-9	459237-22-0
	459237-23-1	459237-24-2	459237-25-3	459237-26-4	459237-27-5
	459237-28-6	459237-29-7	459237-30-0	459237-31-1	459237-32-2
	459237-33-3	459237-34-4	459237-35-5	459237-42-4	

RL: PRP (Properties)

(unclaimed nucleotide sequence; antisense oligonucleotides for treating
 diseases assocd. with interleukin-5 signal transduction)

IT 195253-09-9

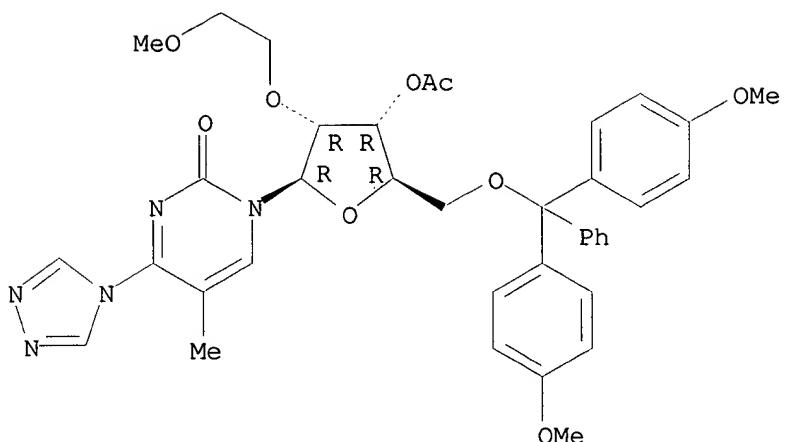
RL: RCT (Reactant); RACT (Reactant or reagent)

(antisense oligonucleotides for treating interleukin-5 signal-assocd.
 eosinophilic syndrome, asthma and other reactive airway diseases)

RN 195253-09-9 HCAPLUS

CN 2(1H)-Pyrimidinone, 1-[3-O-acetyl-5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-O-(2-methoxyethyl)-.beta.-D-ribofuranosyl]-5-methyl-4-(4H-1,2,4-triazol-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



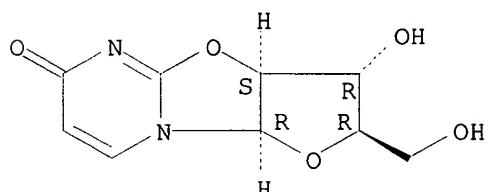
IT 3736-77-4P, 2,2'-Anhydro-1-.beta.-D-arabinofuranosyluracil
 22423-26-3P 163759-49-7P, 2'-O-Methoxyethyl-5-
 methyluridine 163759-50-0P 163759-94-2P
 182495-98-3P 182496-00-0P 182496-01-1P
 223777-16-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (antisense oligonucleotides for treating interleukin-5 signal-assoccd.
 eosinophilic syndrome, asthma and other reactive airway diseases)

RN 3736-77-4 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-
 hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

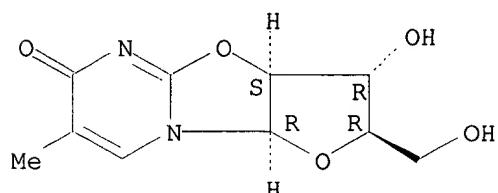
Absolute stereochemistry.



RN 22423-26-3 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-
 hydroxy-2-(hydroxymethyl)-7-methyl-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX
 NAME)

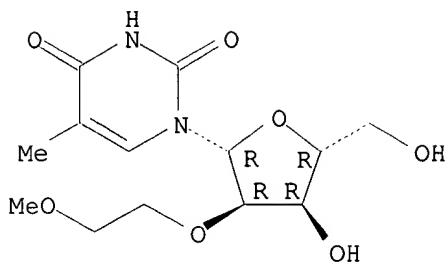
Absolute stereochemistry.



RN 163759-49-7 HCPLUS

CN Uridine, 2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

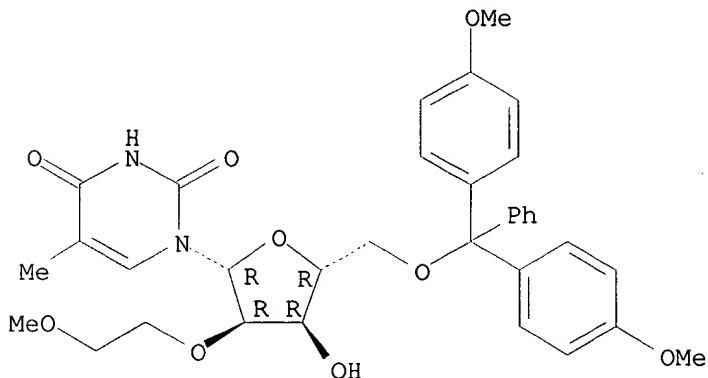
Absolute stereochemistry.



RN 163759-50-0 HCAPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

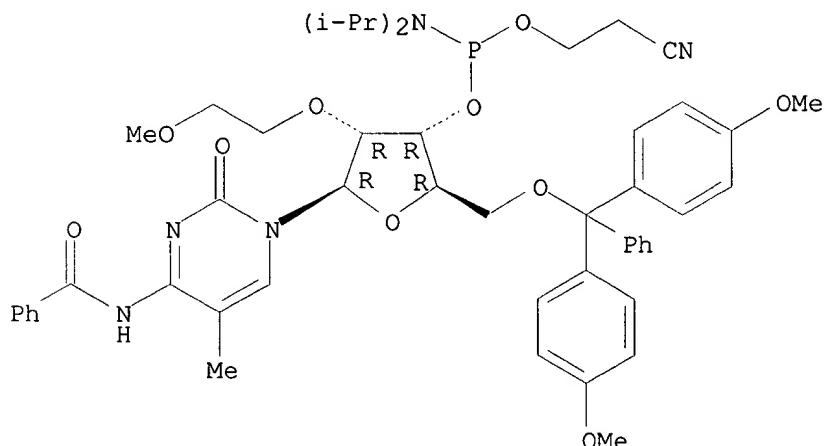
Absolute stereochemistry.



RN 163759-94-2 HCAPLUS

CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

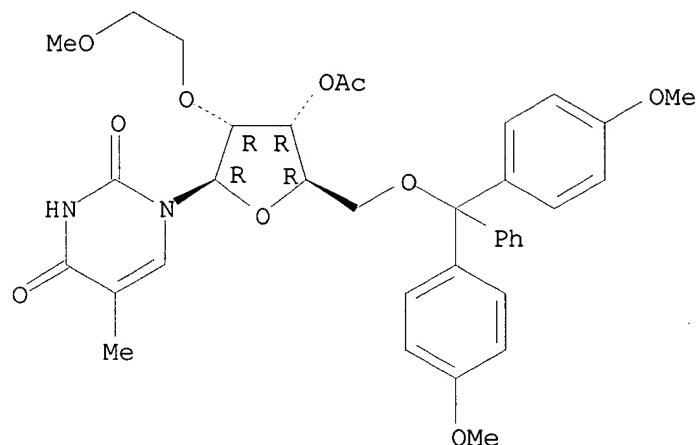
Absolute stereochemistry.



RN 182495-98-3 HCAPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl-, 3'-acetate (9CI) (CA INDEX NAME)

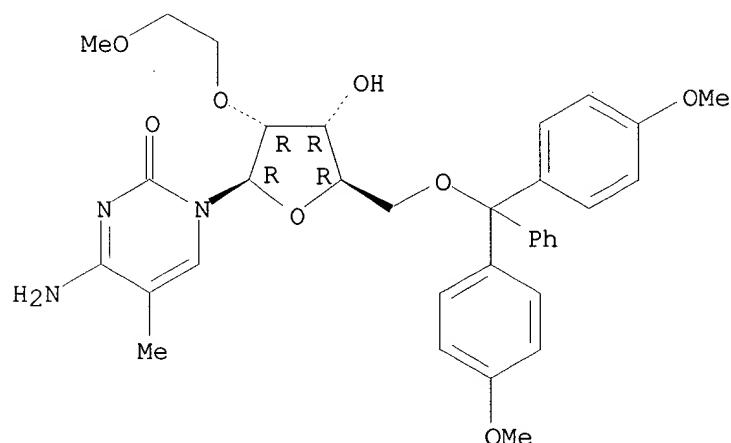
Absolute stereochemistry.



RN 182496-00-0 HCAPLUS

CN Cytidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

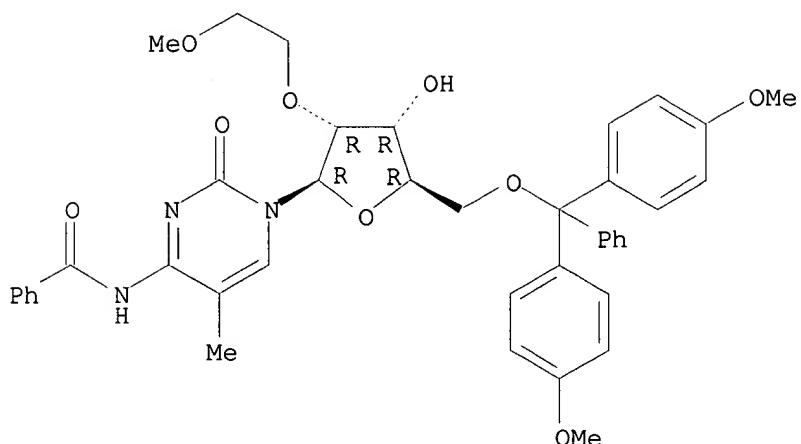
Absolute stereochemistry.



RN 182496-01-1 HCAPLUS

CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

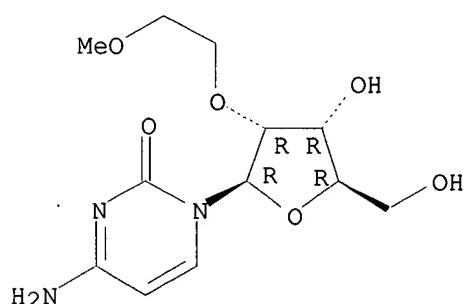
Absolute stereochemistry.



RN 223777-16-0 HCAPLUS

CN Cytidine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L101 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:72111 HCAPLUS

DN 136:102622

TI Processes for the preparation of 2,2'-anhydronucleic acid compound derivatives

IN Suzuki, Tsuneji; Nagase, Hiroshi; Kai, Akiyoshi; Iizuka, Hajime

PA Mitsui Chemicals, Inc., Japan

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

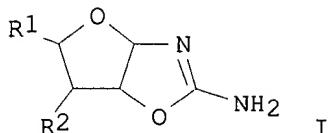
IC ICM C07H019-067

ICS C07D498-14

CC 33-9 (Carbohydrates)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002006296	A1	20020124	WO 2001-JP6263	20010719
	W: BR, CA, CN, IN, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRAI	JP 2002167388	A2	20020611	JP 2001-220077	20010719
OS	JP 2000-219546	A	20000719		
GI	CASREACT 136:102622; MARPAT 136:102622				



AB 2,2'-Anhydronucleic acid compd. derivs. useful as intermediates of drugs or agricultural chems. or the like can be prep'd. from inexpensive starting compds. by reacting compd. I with compd. R3CXYZR4 (wherein R1, R2, R3, R4, Q, X, Y and Z represent specific groups resp.). Further, L-cytidine derivs. useful as intermediates of drugs or agricultural chems. or the like can be prep'd. by synthesizing a 2'-alkoxycytidine directly from a 2,2'-anhydrocytidine deriv.

ST anhydronucleic acid deriv prep'n

IT Nucleic acids

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(anhydro; prep'n. of 2,2'-anhydronucleic acid derivs.)

IT 389575-06-8P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prep'n. of 2,2'-anhydronucleic acid derivs.)

IT 389575-08-0P 389575-10-4P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(prep'n. of 2,2'-anhydronucleic acid derivs.)

IT 109-86-4, 2-Methoxyethanol 109-88-6, Magnesium methoxide 4554-16-9, 2,3-Dibromopropionitrile 389575-03-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(prep'n. of 2,2'-anhydronucleic acid derivs.)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Research Corporation; US 4104461 A 1978 HCPLUS
- (2) University Of Georgia Research Foundation Inc; JP 09508394 A 1995
- (3) University Of Georgia Research Foundation Inc; CN 1143966 A 1995 HCPLUS
- (4) University Of Georgia Research Foundation Inc; RO 116623 B1 1995 HCPLUS
- (5) University Of Georgia Research Foundation Inc; CA 2182273 A 1995 HCPLUS
- (6) University Of Georgia Research Foundation Inc; US 5565438 A 1995 HCPLUS
- (7) University Of Georgia Research Foundation Inc; US 5567688 A 1995 HCPLUS
- (8) University Of Georgia Research Foundation Inc; US 5587362 A 1995 HCPLUS
- (9) University Of Georgia Research Foundation Inc; US 5808040 A 1995 HCPLUS
- (10) University Of Georgia Research Foundation Inc; EP 748330 A1 1995 HCPLUS
- (11) University Of Georgia Research Foundation Inc; HU 75514 A2 1995 HCPLUS
- (12) University Of Georgia Research Foundation Inc; BR 9506596 A 1995 HCPLUS
- (13) University Of Georgia Research Foundation Inc; AU 9517376 A1 1995 HCPLUS
- (14) University Of Georgia Research Foundation Inc; WO 9520595 A1 1995 HCPLUS
- (15) University Of Georgia Research Foundation Inc; FI 9602986 A 1995 HCPLUS
- (16) University Of Georgia Research Foundation Inc; NO 9603138 A 1995 HCPLUS

IT 389575-06-8P

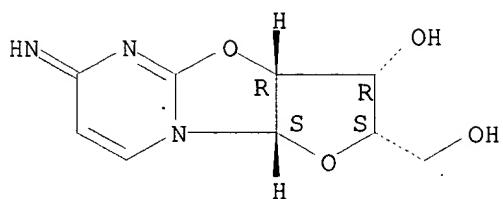
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prep'n. of 2,2'-anhydronucleic acid derivs.)

RN 389575-06-8 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidine-2-methanol,
2,3,3a,9a-tetrahydro-3-hydroxy-6-imino-, monohydrobromide,
(2S,3R,3aR,9aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HBr

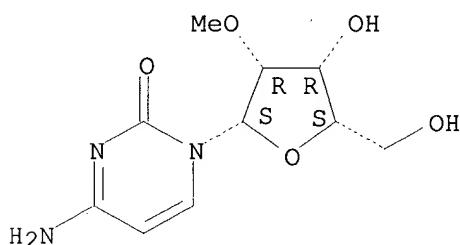
IT 389575-08-0P 389575-10-4P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2,2'-anhydronucleic acid derivs.)

RN 389575-08-0 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(2-O-methyl-.beta.-L-lyxofuranosyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

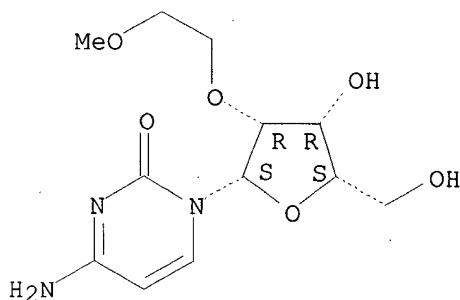


● HCl

RN 389575-10-4 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[2-O-(2-methoxyethyl)-.beta.-L-lyxofuranosyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



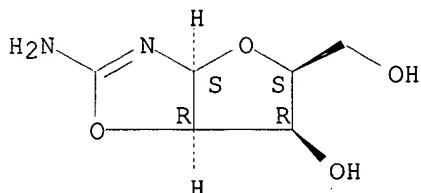
● HCl

IT 389575-03-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of 2,2'-anhydronucleic acid derivs.)
RN 389575-03-5 HCPLUS
CN Furo[2,3-d]oxazole-5-methanol, 2-amino-3a,5,6,6a-tetrahydro-6-hydroxy-,
(3aS,5S,6R,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L101 ANSWER 3 OF 6 HCPLUS COPYRIGHT 2003 ACS

AN 2000:688247 HCPLUS

DN 133:222975

TI '2'-Substituted RNA preparation

IN Reese, Colin Bernard; Song, Quanlai

PA Avecia Limited, UK

SO PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DT Patent

LA English

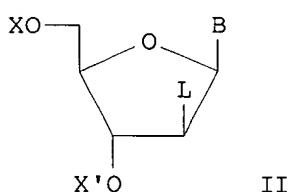
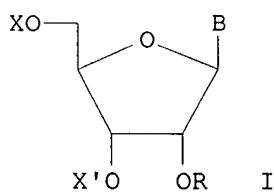
IC ICM C07H019-04

ICS C07H019-06; C07H021-00

CC 33-9 (Carbohydrates)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000056747	A1	20000928	WO 2000-GB965	20000315 <--
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1165584	A1	20020102	EP 2000-909534	20000315 <--
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	JP 2002540117	T2	20021126	JP 2000-606608	20000315 <--
PRAI	GB 1999-6328	A	19990319	<--	
	WO 2000-GB965	W	20000315	<--	
OS	CASREACT 133:222975; MARPAT 133:222975				
GI					



AB A process for the prepn. of RNA I wherein X, and X' are each independently H or a protecting group, B is a base; R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, is provided, which comprises the reaction a compd. of formula II with a compd. of formula Al(OR)3 wherein R is as defined above, under substantially anhyd. conditions and L is a leaving group. Thus, 2'-O-(2-methoxyethyl)cytidine was prepnd. from uridine via etherification with **aluminum** and 2-methoxyethanol.

ST RNA methoxyethylcytidine etherification methoxyethanol prepn

IT Etherification

(prepn. of 2'-substituted RNA via etherification)

IT **3736-77-4P 223777-15-9P**

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 2'-substituted RNA via etherification)

IT **223777-16-0P**

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2'-substituted RNA via etherification)

IT **58-96-8**, Uridine 102-09-0, Diphenyl carbonate 109-86-4,
2-Methoxyethanol.

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of 2'-substituted RNA via etherification)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Isis Pharmaceuticals Inc; WO 9627606 A 1996 HCPLUS
- (2) McGee, D; NUCLEOSIDES & NUCLEOTIDES 1996, V15(11/12), P1797
- (3) Ross, B; NUCLEOSIDES & NUCLEOTIDES 1997, V16(7-9), P1641 HCPLUS

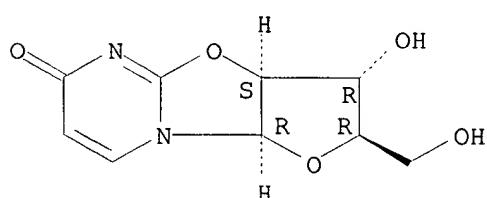
IT **3736-77-4P 223777-15-9P**

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 2'-substituted RNA via etherification)

RN 3736-77-4 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

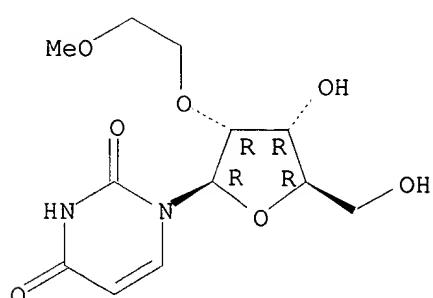
Absolute stereochemistry.



RN 223777-15-9 HCPLUS

CN Uridine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



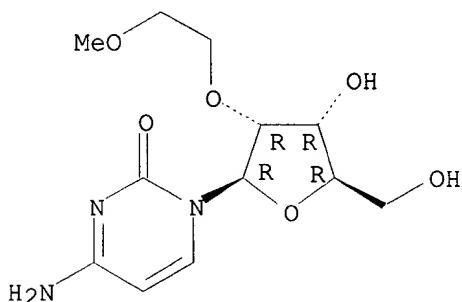
IT 223777-16-0P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of 2'-substituted RNA via etherification)

RN 223777-16-0 HCPLUS

CN Cytidine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



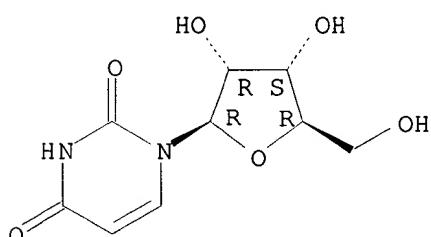
IT 58-96-8, Uridine

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 2'-substituted RNA via etherification)

RN 58-96-8 HCPLUS

CN Uridine (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L101 ANSWER 4 OF 6 HCPLUS COPYRIGHT 2003 ACS

AN 1999:296184 HCPLUS

DN 130:325337

TI Conversion of uridine into 2'-O-(2-methoxyethyl)uridine and
 2'-O-(2-methoxyethyl)cytidine

AU Legorburu, Urtzi; Reese, Colin B.; Song, Quanlai

CS Department of Chemistry, King's College London, London, WC2R 2LS, UK

SO Tetrahedron (1999), 55(17), 5635-5640

CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier Science Ltd.

DT Journal

LA English

CC 33-9 (Carbohydrates)

AB Reaction between aluminum 2-methoxyethoxide and
 2,2'-anhydro-1-.beta.-D-arabinofuranosyluracil gives 2'-O-(2-
 methoxyethyl)uridine in high yield. This compd. is converted into
 2'-O-(2-methoxyethyl)cytidine in good yield.

ST methoxyethyl uridine prepn conversion cytidine

IT 58-96-8, Uridine

RL: RCT (Reactant); RACT (Reactant or reagent)

(conversion of uridine into methoxyethyluridine and
methoxyethylcytidine)

IT 3736-77-4P 223777-15-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(conversion of uridine into methoxyethyluridine and
methoxyethylcytidine)

IT 223777-16-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(conversion of uridine into methoxyethyluridine and
methoxyethylcytidine)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Altmann, K; Nucleosides and Nucleotides 1997, V16, P917 HCPLUS
- (2) Andrade, M; Nucleosides and Nucleotides 1997, V16, P1617 HCPLUS
- (3) Divakar, K; J Chem Soc Perkin Trans 1 1982, P1171 HCPLUS
- (4) Divakar, K; J Chem Soc Perkin Trans 1 1982, P1625 HCPLUS
- (5) Fathi, R; Tetrahedron Lett 1990, V31, P319 HCPLUS
- (6) Groetli, M; Tetrahedron 1998, V54, P5899
- (7) Gura, T; Science 1995, V270, P575 HCPLUS
- (8) Hampton, A; Biochemistry 1966, V5, P2076 HCPLUS
- (9) Martin, P; Helv Chim Acta 1995, V78, P486 HCPLUS
- (10) McGee, D; Abstracts of American Chemical Society National Meeting Division
of Organic Chemistry 1996
- (11) Miah, A; J Chem Soc Chem Commun 1997, P407 HCPLUS
- (12) Miah, A; J Chem Soc Perkin Trans 1 1998, P3277 HCPLUS
- (13) Miah, A; Nucleosides and Nucleotides 1997, V16, P53 HCPLUS
- (14) Reese, C; J Chem Soc Perkin Trans 1 1984, P1263 HCPLUS
- (15) Ross, B; Nucleosides and Nucleotides 1997, V16, P1641 HCPLUS
- (16) Sproat, B; Methods in Molecular Biology Protocols for Oligonucleotides and
Analogs 1993, V20, P115 HCPLUS
- (17) Verheyden, J; J Org Chem 1971, V36, P250 MEDLINE
- (18) Zon, G; Oligonucleotides and Analogues A Practical Approach 1991, P87
HCPLUS

IT 58-96-8, Uridine

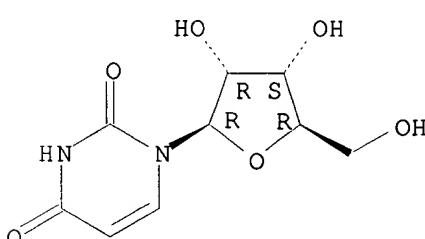
RL: RCT (Reactant); RACT (Reactant or reagent)

(conversion of uridine into methoxyethyluridine and
methoxyethylcytidine)

RN 58-96-8 HCPLUS

CN Uridine (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 3736-77-4P 223777-15-9P

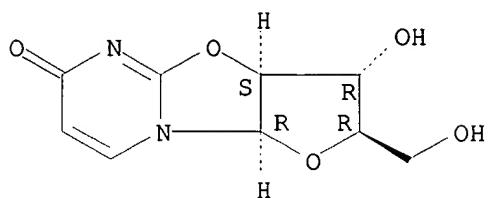
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(conversion of uridine into methoxyethyluridine and
methoxyethylcytidine)

RN 3736-77-4 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-
hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

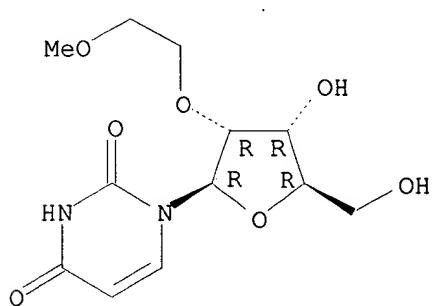
Absolute stereochemistry.



RN 223777-15-9 HCPLUS

CN Uridine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



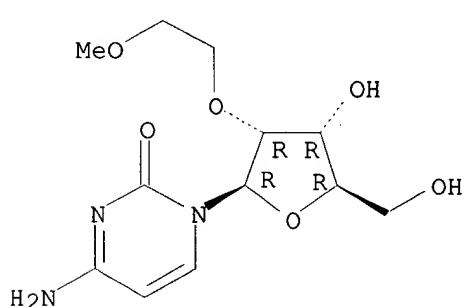
IT 223777-16-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(conversion of uridine into methoxyethyluridine and
methoxyethylcytidine)

RN 223777-16-0 HCPLUS

CN Cytidine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L101 ANSWER 5 OF 6 HCPLUS COPYRIGHT 2003 ACS

AN 1996:205035 HCPLUS

DN 124:261622

TI Preparation of known and novel 2'-modified nucleosides by intramolecular nucleophilic displacement of anhydronucleosides.

IN McGee, Danny P. C.; Pieken, Wolfgang A.; Sebesta, David P.; Zhai, Yansheng

PA Nexstar Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K031-00
 ICS C07H001-00; C07H019-00; C07H021-00
 CC 33-9 (Carbohydrates)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9535102	A1	19951228	WO 1995-US6641	19950525
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2192950	AA	19951228	CA 1995-2192950	19950525
	AU 9526496	A1	19960115	AU 1995-26496	19950525
	AU 710074	B2	19990916		
	EP 767657	A1	19970416	EP 1995-921408	19950525
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 10501809	T2	19980217	JP 1995-502200	19950525
	US 6090932	A	20000718	US 1996-732283	19961030
PRAI	US 1994-264029	A	19940622		
	WO 1995-US6641	W	19950525		
OS	MARPAT	124:261622			
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 2'-Modified nucleosides were prepd. by (1) performing an intramol. nucleophilic reaction on an intermediate [I; B = nucleobase; W = O, S, C(R₂)₂, NR₂, PR₂, POR₂; X = O, S, NH, NR₄; Y = metal, C, Si, Se, S, B, Al, Sn, P; Z = imidazolyl, Cl, F, H, 2H, 3H, OH, NHOR₁, NHOR₅, NHHNR₅, NHR₅, :NH, CHCN, CHCl₂, SH, SR₅, CHF₂, CF₂H, OR₄, etc.; R₁ = H, protecting group; R₂ = O, S, H, OH, CCl₃, CF₃, halo, (substituted) alkyl, alkenyl, aryl, acyl, PhCO, OR₄, esters; R₃ = O, S, OH, H, CCl₃, halo, alkyl, alkenyl, aryl, PhCO, esters, OR₄, null, cyclopentadienyl, cyclooctadienyl, CO, trialkylphosphine if Y = metal; R₄ = (substituted) alkenyl, alkynyl, aryl, heterocyclyl, nucleoside, carbohydrate, fluorescent label, phosphate residue; R₅ = R₂, R₄, CN, CONH₂, CSNH₂, SO₂R₄, amino acid, peptide residues and mixts. thereof], and (2) isolating the product. Thus, 5'-dimethoxytrityl-2',2'-anhydrouridine (II) was heated with Cl₃CCN and NaH at 90.degree. for 16 h to give oxazoline deriv. (III), which was stirred with 80% aq. HOAc to give aminoalc. (IV).

ST nucleoside prepn; anhydronucleoside nucleophilic displacement reaction
 IT Nucleosides, preparation

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT Nucleosides, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
 (anhydro, prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT Nucleotides, preparation

RL: PNU (Preparation, unclassified); PREP (Preparation)
 (oligo-, prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT 174221-82-0P 175013-47-5P 175013-58-8P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prep. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

IT 23669-79-6P 26889-39-4P **35837-20-8P 103285-22-9P**
143463-62-1P 160527-06-0P 174221-81-9P
174221-86-4P 175013-48-6P 175013-49-7P 175013-50-0P 175013-52-2P
175013-53-3P 175013-61-3P 175013-63-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prep. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

IT 107-18-6, Allyl alcohol, reactions 109-88-6, Magnesium methoxide
3736-77-4 35754-82-6, Magnesium propoxide
RL: RCT (Reactant); RACT (Reactant or reagent)
(prep. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

IT 957-75-5P 7789-78-8P, Calcium hydride **173170-12-2P**
175013-46-4P 175013-51-1P 175013-54-4P
175013-57-7P 175013-60-2P 175013-62-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prep. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

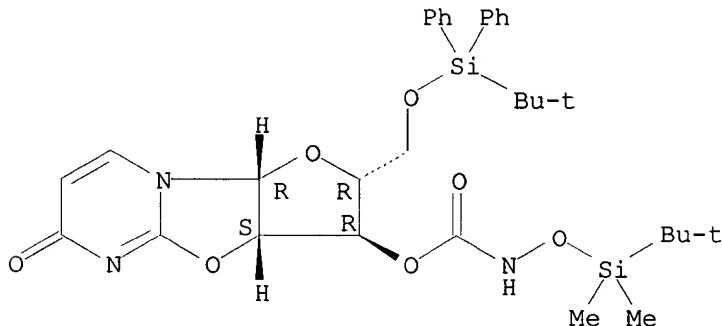
IT **175013-55-5P 175013-56-6P 175013-59-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prep. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

IT **175013-47-5P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prep. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

RN 175013-47-5 HCPLUS

CN Carbamic acid, [[[1,1-dimethylethyl]dimethylsilyl]oxy]-,
(2R,3R,3aS,9aR)-2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-
2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

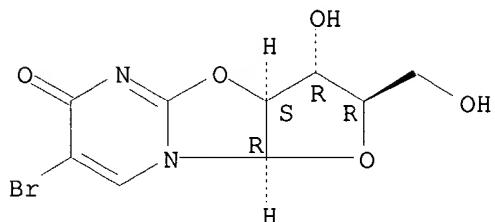


IT **35837-20-8P 103285-22-9P 143463-62-1P**
160527-06-0P 174221-81-9P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prep. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

RN 35837-20-8 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 7-bromo-2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

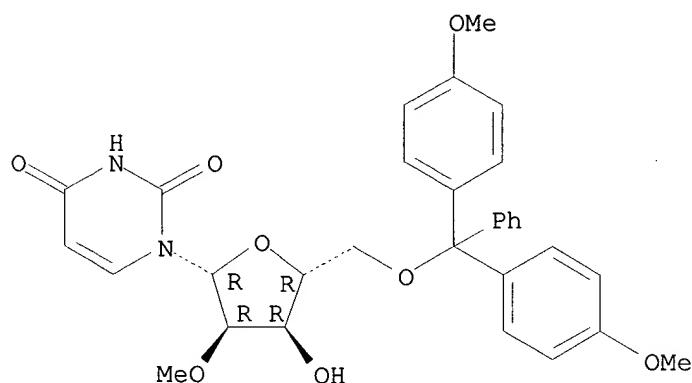
Absolute stereochemistry.



RN 103285-22-9 HCPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-methyl- (9CI) (CA INDEX NAME)

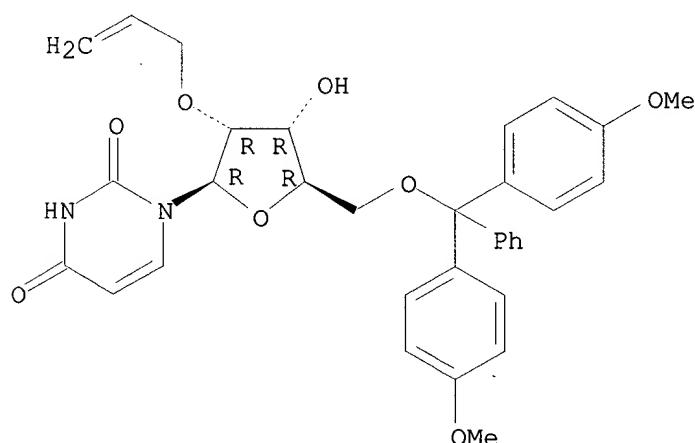
Absolute stereochemistry.



RN 143463-62-1 HCPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-2-propenyl- (9CI) (CA INDEX NAME)

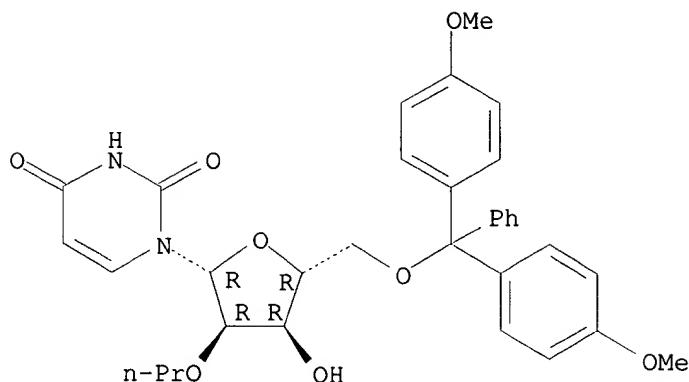
Absolute stereochemistry.



RN 160527-06-0 HCPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-propyl- (9CI) (CA INDEX NAME)

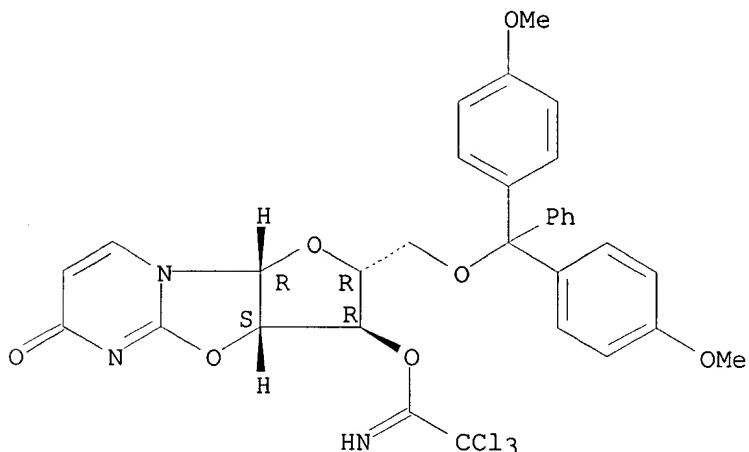
Absolute stereochemistry.



RN 174221-81-9 HCAPLUS

CN Ethanimidic acid, 2,2,2-trichloro-, (2R,3R,3aS,9aR)-2-[bis(4-methoxyphenyl)phenylmethoxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



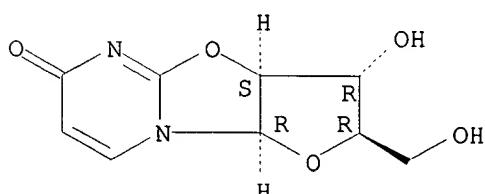
IT 3736-77-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of known and novel 2'-modified nucleosides by intramol.
nucleophilic displacement)

RN 3736-77-4 HCAPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 173170-12-2P 175013-46-4P 175013-51-1P

175013-57-7P 175013-60-2P 175013-62-4P

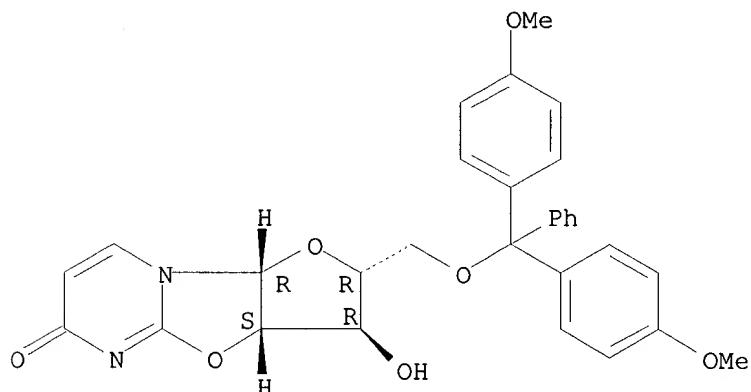
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

RN 173170-12-2 HCAPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[bis(4-methoxyphenyl)phenylmethoxy]methyl]-2,3,3a,9a-tetrahydro-3-hydroxy-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

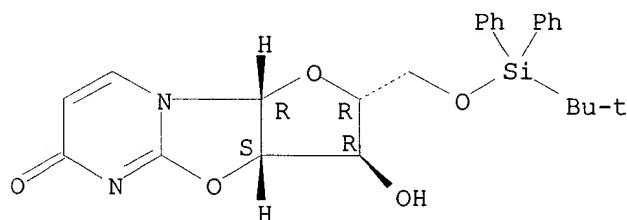
Absolute stereochemistry.



RN 175013-46-4 HCAPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-3-hydroxy-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

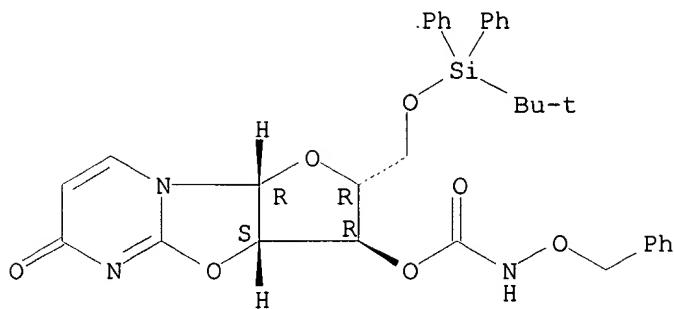
Absolute stereochemistry.



RN 175013-51-1 HCAPLUS

CN Carbamic acid, (phenylmethoxy)-, (2R,3R,3aS,9aR)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

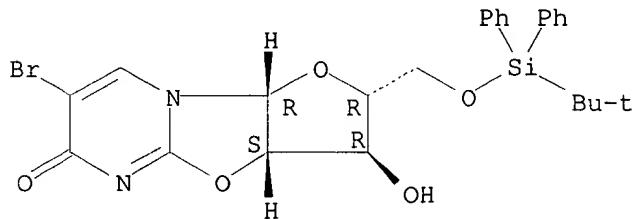
Absolute stereochemistry.



RN 175013-57-7 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 7-bromo-2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-3-hydroxy-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

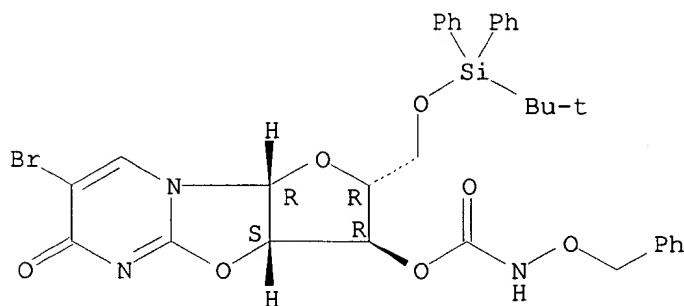
Absolute stereochemistry.



RN 175013-60-2 HCPLUS

CN Carbamic acid, (phenylmethoxy)-, (2R,3R,3aS,9aR)-7-bromo-2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

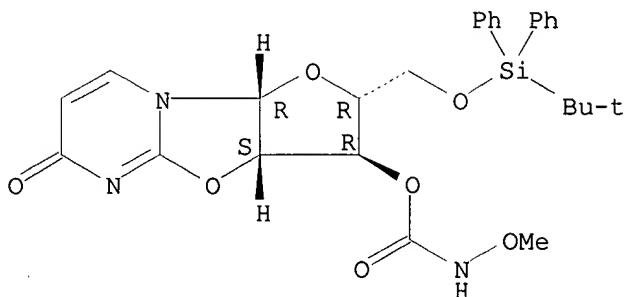
Absolute stereochemistry.



RN 175013-62-4 HCPLUS

CN Carbamic acid, methoxy-, (2R,3R,3aS,9aR)-2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



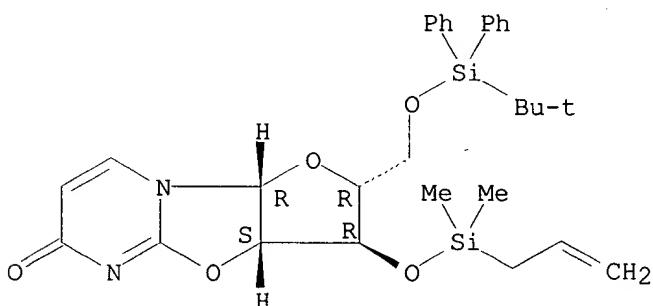
IT 175013-55-5P 175013-56-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of known and novel 2'-modified nucleosides by intramol.
 nucleophilic displacement)

RN 175013-55-5 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-3-[(dimethyl-2-propenylsilyl)oxy]-2,3,3a,9a-tetrahydro-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

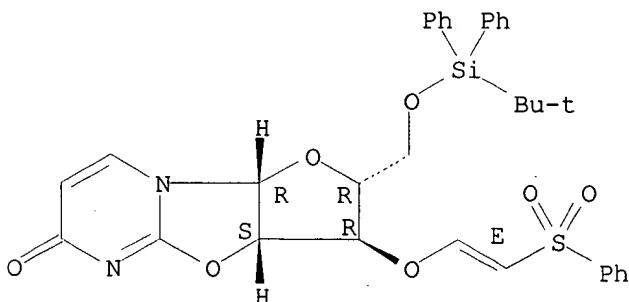


RN 175013-56-6 HCPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-3-[(1E)-2-(phenylsulfonyl)ethenyl]oxy]-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



TI 4-(1,2,4-Triazol-1-yl)- and 4-(3-nitro-1,2,4-triazol-1-yl)-1-(.beta.-D-2,3,5-tri-O-acetylribonofuranosyl)pyrimidin-2(1H)-ones. Valuable intermediates in the synthesis of derivatives of 1-(.beta.-D-arabinofuranosyl)cytosine (ara-C)

AU Divakar, K. J.; Reese, Colin B.

CS Dep. Chem., King's Coll., London, WC2R 2LS, UK

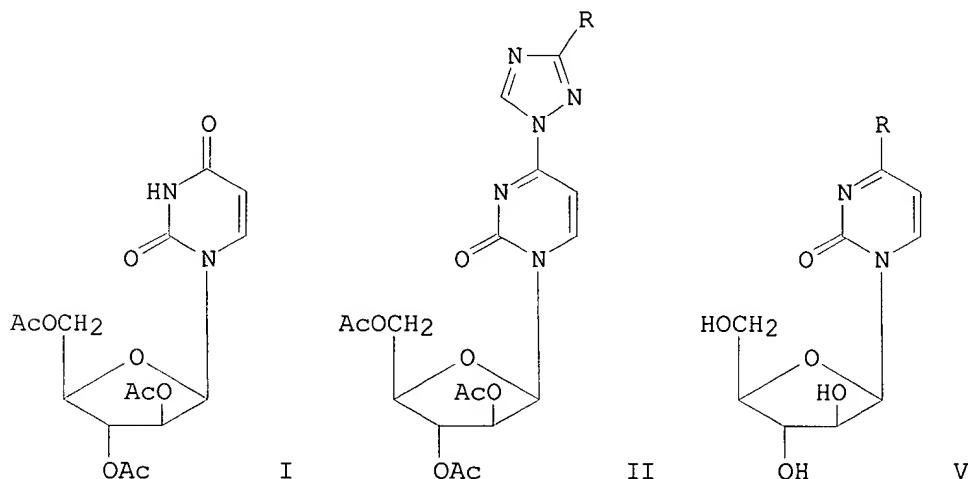
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (5), 1171-6
CODEN: JCPRB4; ISSN: 0300-922X

DT Journal

LA English

CC 33-9 (Carbohydrates)
Section cross-reference(s): 23, 25, 28

GI



AB Condensation reactions of triacetylarabinofuranosyluracil (I), prep'd. in 3 steps from uracil, with tri(1H-1,2,4-triazol-1-yl)phosphine oxide and with 3-nitro-1,2,4-triazole and (PhO)2POCl gave the title compds. II (R = H, NO₂) (III and IV, resp.). Substitution reactions of III with RH (R = NH₂, NHMe, NMe₂, morpholino, PhNH, p-MeC₆H₄S) gave the corresponding arabinofuranosylcytosines V in high yield. Substitution of IV with PhNH₂ and with H₂NCH₂CO₂Me gave V (R = PhNH, NHCH₂CO₂Me, resp.).

ST arabinofuranosyluracil prepn condensation triazole;
triazolylarabinofuranosylpyrimidinone prepn substitution; cytosine arabinofuranosyl

IT Nucleosides, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(arabinofuranosylcytosines, prepn. of, by substitution reactions of triazolyl(triacetylarabinofuranosyl)pyrimidinones with amines)

IT Substitution reaction, nucleophilic
(of triazolyl(triacetylarabinofuranosyl)pyrimidinones, with amines and with toluenethiol)

IT 24807-55-4 72741-18-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reaction of, with (triacetylarabinofuranosyl)uracil)

IT 66-22-8, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, intramol.)

IT 3083-77-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and acetylation of)

IT **14057-18-2P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and condensation reactions of, with tritriazolylphosphine oxide and nitrotriazole)

IT **3736-77-4P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and hydrolysis of)

IT **82855-62-7P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and substitution reactions of, with amines and with toluenethiol)

IT **82855-63-8P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and substitution reactions of, with aniline and with glycine Me ester)

IT 147-94-4P 13491-42-4P 82855-64-9P 82855-65-0P 82855-66-1P
 82855-67-2P 82855-68-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT 74-89-5, reactions 106-45-6 110-91-8, reactions 124-40-3, reactions 616-34-2 7664-41-7, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (substitution reaction of, with triazolyl[triacetylribonofuranosyl]pyrimidinone)

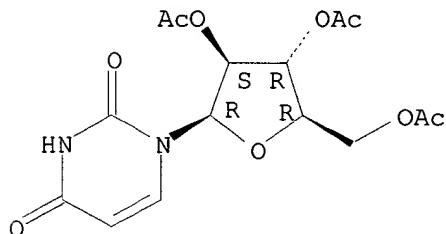
IT 62-53-3, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (substitution reactions of, with triazolyl(triacetylribonofuranosyl)pyrimidinones)

IT **14057-18-2P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and condensation reactions of, with tritriazolylphosphine oxide and nitrotriazole)

RN 14057-18-2 HCAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-(2,3,5-tri-O-acetyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

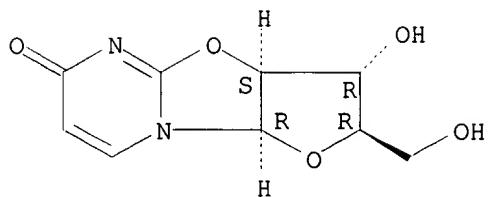


IT **3736-77-4P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and hydrolysis of)

RN 3736-77-4 HCAPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



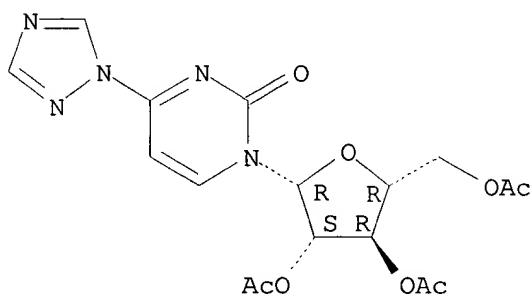
IT 82855-62-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and substitution reactions of, with amines and with toluenethiol)

RN 82855-62-7 HCPLUS

CN 2(1H)-Pyrimidinone, 1-(2,3,5-tri-O-acetyl-.beta.-D-arabinofuranosyl)-4-(1H-1,2,4-triazol-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 82855-63-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and substitution reactions of, with aniline and with glycine Me ester)

RN 82855-63-8 HCPLUS

CN 2(1H)-Pyrimidinone, 4-(3-nitro-1H-1,2,4-triazol-1-yl)-1-(2,3,5-tri-O-acetyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

